

Appendix to:
Pandemics, Economic Freedom, and Institutional Trade-Offs

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1 Descriptive Statistics for Censuses of 1850, 1860, 1870 and 1890

In our article, we included an extension to other censuses of our results based on the 1880 census. This was done as a complement to assess robustness of our coefficient. We also tried a panel approach (see section 2 of this appendix). To keep the article short, we did not include the descriptive statistics for all censuses. They are available below.

Table A1: Descriptive Statistics for 1850

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max
EFUSA	31	6.627	0.459	5.451	7.505
Proxy for Water Supply	36	31.33	120.2	0.121	684.5
Urbanization Rate	38	13.44	18.65	0	93.60
Physicians to Population	36	1.961	0.998	0.146	6.793
Population Density	36	47.44	122.4	0.0729	738.4
Former Slave State	51	0.412	0.497	0	1
Log of Typhoid Fever Death Rate	32	1.282	0.509	0.122	2.127
Log of Smallpox Death Rate	28	-0.0692	0.786	-1.897	1.808
Population up to 15	36	40.75	7.983	6.457	54.83
Population below 9	36	28.46	5.665	4.321	35.54
African American Population Share	36	16.06	18.97	0.0357	58.93
Foreign-Born-Population Share	35	9.907	8.743	0.297	36.18

Table A2: Descriptive Statistics for 1860

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max
EFUSA	33	6.268	0.721	3.906	7.253
Proxy for Water Supply	43	16.43	50.03	0.0963	289.4
Urbanization Rate	42	16.82	18.86	0	93
Physicians to Population	43	1.749	0.846	0	4.403
Population Density	43	53.47	163.1	0.0324	1,073
Former Slave State	51	0.412	0.497	0	1
Log of Typhoid Fever Death Rate	38	1.650	0.611	-0.342	2.482
Log of Smallpox Death Rate	30	-1.193	0.755	-2.207	1.369
Population up to 15	42	38.32	9.576	0.312	49.65
Population below 9	42	27.39	6.826	0.225	38.68
African American Population Share	37	15.21	19.03	0.124	58.59
Foreign-Born-Population Share	43	13.90	11.32	0.332	38.56

Table A3: Descriptive Statistics for 1870

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max
EFUSA	37	6.082	0.573	4.255	6.880
Proxy for Water Supply	47	12.89	38.04	0.0795	249.5
Urbanization Rate	42	20.88	16.21	2.555	74.58
Physicians to Population	47	1.796	1.095	0.294	8.316
Population Density	47	31.12	42.97	0.0340	175.3
Former Slave State	51	0.412	0.497	0	1
Log of Typhoid Fever Death Rate	47	1.659	0.710	-2.303	2.441
Log of Smallpox Death Rate	43	-0.344	1.430	-2.303	4.590
Population up to 15	45	36.74	8.434	14.66	48.52
Population below 9	45	25.37	5.676	11.61	35.06
African American Population Share	47	12.14	18.16	0.136	58.93
Foreign-Born-Population Share	47	18.56	16.53	0.338	72.36

Table A4: Descriptive Statistics for 1890

VARIABLES	(1) N	(2) mean	(3) sd	(4) min	(5) max
EFUSA	44	6.095	0.612	3.976	7.029
Proxy for Water Supply	47	1.965	3.667	0.0533	20.27
Urbanization Rate	48	28.74	19.74	2.610	85.34
Physicians to Population	48	1.619	0.437	0.961	2.765
Population Density	47	46.94	64.29	0.428	276.4
Former Slave State	51	0.412	0.497	0	1
Log of Typhoid Fever Death Rate	49	1.456	0.355	0.542	2.326
Log of Smallpox Death Rate	48	-2.009	0.769	-2.303	2.717
Population up to 15	48	34.53	6.393	21.88	44.73
Population below 9	48	23.78	4.429	15.35	30.30
African American Population Share	48	12.42	17.27	0.186	59.87
Foreign-Born-Population Share	48	16.15	11.92	0.200	44.60

2 Panel Regression Results

The regressions below replicate the specification of the first columns of tables 6 and 7 in a panel setup. To economize on space, we only report our main variable of interest: economic freedom. To assess robustness, we made three modifications to the results shown in columns 1 of tables A6 and A7. The first is that we excluded the 1870 census data because sources mention that it was the most unreliable of the censuses with regards to mortality (columns 2). The second is that we preserved a balanced sample and excluded states that entered the Union (columns 3). The third is that we combined the two previous restrictions (columns 4). The results remain the same regardless of the specification used.

Table A5: Panel Regression Results, Log of Typhoid Fever Death Rates

VARIABLES	(1) All Sample	(2) All Sample w/o 1870	(3) Balanced Sample	(4) Balanced Sample w/o 1870
Economic Freedom	-0.228** (0.0965)	-0.370** (0.159)	-0.266** (0.107)	-0.360** (0.161)
Constant	60.03 (36.10)	128.8** (60.66)	65.98 (41.83)	116.8 (77.38)
Observations	183	146	154	123
R-squared	0.601	0.676	0.605	0.652
Number of state1	45	45	31	31
Country FE	YES	YES	YES	YES
Year FE	YES	YES	YES	YES
State-Specific Time Trend	YES	YES	YES	YES

Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1

Table A6: Panel Regression Results, Log of Smallpox Death Rates

VARIABLES	(1) All Sample	(2) All Sample w/o 1870	(3) Balanced Sample	(4) Balanced Sample w/o 1870
Economic Freedom	-0.206 (0.284)	0.131 (0.239)	-0.207 (0.300)	0.131 (0.241)
Constant	198.4** (87.00)	-52.59 (80.08)	220.0* (118.8)	-60.29 (77.98)
Observations	168	132	141	111
R-squared	0.766	0.873	0.742	0.873
Number of state1	45	45	31	31
Country FE	YES	YES	YES	YES
Year FE	YES	YES	YES	YES
State-Specific Time Trend	YES	YES	YES	YES

Robust standard errors in parentheses

*** p<0.01, ** p<0.05, * p<0.1